

## CLAIMS

What is claimed is:

1. An absorption solution/refrigerant system comprising:  
a generator for receiving a mixture of an absorption solution and a refrigerant, and for receiving a source of heat;  
said generator including a line for taking a refrigerant from said generator to an evaporator, and for taking said absorption solution from said generator to said absorber separately from said refrigerant, and including a line from said absorber for returning a combined absorption solution and refrigerant mixture to said generator; and  
a sensor for sensing an undesirable heat load on said system, said sensor providing feedback to a control, said control being operational to effect a device to reduce the heat load on said system should it be determined that an undesirable heat load exists on said system.
2. A system as set forth in Claim 1, wherein a temperature sensor senses a temperature within said system, and if said temperature sensor detects an undesirable heat load, said control takes an appropriate action.
3. A system as set forth in Claim 1, wherein said control provides a warning to building maintenance personnel should said undesirable heat load be determined.

4. A system as set forth in Claim 1, wherein said source of heat is a heated fluid source, and said control provides a cool fluid source to be mixed with said heated fluid source should said undesirable heat load be determined.
5. A system as set forth in Claim 1, wherein said control effects control of a valve to further reduce the amount of heat in said system should said undesirable heat load be determined.
6. A system as set forth in Claim 5, wherein said control normally controls a first diverter valve controlling the amount of heated fluid delivered to said generator, and said control controlling a second bypass valve should said undesirable heat load be determined.
7. A system as set forth in Claim 1, wherein said source of heat is an engine powered generator, and said control being provided with an indication from said sensor that there is a power failure in said system, said control then diverting power from said engine powered generator to power at least pumps within said system.
8. A system as set forth in Claim 1, wherein said control effects control of a valve to control the amount of heat delivered by said source of heat, said valve further controlling a blower for mixing a cooled source in with said source of heat, said valve further controlling a warning to building maintenance personnel, said control operating each of said valve, said blower, and said warning in a hierarchy of levels should said undesirable heat load be determined to be continuing.

9. A system as set forth in Claim 8, wherein said control further being operational to shut said system down should said undesirable heat load continue even after each of said valve, said blower and said warnings have been effected in response to said undesirable heat load.

10. An absorption solution/refrigerant system comprising:

a generator for receiving a mixture of an absorption solution and a refrigerant, and for receiving a source of heat;

said generator including a line for taking a refrigerant from said generator to an evaporator, and for taking said absorption solution from said generator to said absorber separately from said refrigerant, and including a line from said absorber for returning a combined absorption solution and refrigerant mixture to said generator;

pumps being included in said system for moving said absorption solution, said refrigerant and said combined absorption solution and refrigerant mixture through said system;

a turbine for providing an outlet source of heat, to be utilized as said source of heat; and

a sensor for determining a power failure and a means to provide electrical power to said system, and a control for operating said turbine to provide back-up electrical power to at least said pumps should an electric power failure be determined.

11. A system as set forth in Claim 10, wherein said control further acts to divert said source of heat should a power failure be determined.